# Category 3 UTP 100 Pair Cable LSZH

## Product Designation BZ3-100

**Standards**
ISO11801 & TIA/EIA568

**Applications**
Generic cabling systems including 10 Base-T designed to support Cat 3 Link and Channel performance with internationally defined Physical and Electrical performance up to 16MHz

**Construction**
RoHS, RoHS2, REACH and REACH 2 Compliant

**Conductor**
24AWG Plain Annealed Copper

**Insulation**
Polyethylene with colour marking on Primary cores to ease identification

**Colour Code**

<table>
<thead>
<tr>
<th>White/Blue</th>
<th>Red/Blue</th>
<th>Black/Blue</th>
<th>Yellow/Blue</th>
<th>Violet/Blue</th>
</tr>
</thead>
<tbody>
<tr>
<td>White/Orange</td>
<td>Red/Orange</td>
<td>Black/Orange</td>
<td>Yellow/Orange</td>
<td>Violet/Orange</td>
</tr>
<tr>
<td>White/Green</td>
<td>Red/Green</td>
<td>Black/Green</td>
<td>Yellow/Green</td>
<td>Violet/Green</td>
</tr>
<tr>
<td>White/Brown</td>
<td>Red/Brown</td>
<td>Black/Brown</td>
<td>Yellow/Brown</td>
<td>Violet/Brown</td>
</tr>
<tr>
<td>White/Grey</td>
<td>Red/Grey</td>
<td>Black/Grey</td>
<td>Yellow/Grey</td>
<td>Violet/Grey</td>
</tr>
</tbody>
</table>

The cable is produced with 4 Units of 25 pairs. Units identified using a colour ID Tape

**Shield**
None

**Outer Jacket**
Low Smoke Zero Halogen CMX, CM, CMR, LSZH Grey RAL7042

**Nominal Diameter**
22.5mm +/- 2.0 mm

**Additional Components**
Mylar protective tape with ripcord

**Printing**
CABLE BZ3-025 CATEGORY 3 UTP 25 PAIR 24AWG TIA/EIA568B-2
LOW SMOKE ZERO HALOGEN IEC 60332.1 Man. Date + METRE MARKED

**Product lengths**
Maximum 1000m drums standard, other lengths on request

## Mechanical Characteristics

- **Maximum Pulling Force:** 1200 N
- **Minimum Bending Radius:** 8×cable O.D (mm)
- **Nominal Weight:** 550 Kg/1000m
- **Operating Temperature:** -15 Deg C ~ +70 Deg C
- **Installation Temperature:** +5 Deg C ~ +40 Deg C
- **Fire Performance:** IEC332.1, VW1

## Electrical Performance

<table>
<thead>
<tr>
<th>Transmission Frequency</th>
<th>1MHz</th>
<th>4MHz</th>
<th>8MHz</th>
<th>10MHz</th>
<th>16MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEXTA (dB/100m)</td>
<td>41</td>
<td>32</td>
<td>27</td>
<td>26</td>
<td>23</td>
</tr>
<tr>
<td>Characteristic Impedance (Ω)</td>
<td>100+/-.15</td>
<td>100+/-.15</td>
<td>100+/-.15</td>
<td>100+/-.15</td>
<td>100+/-.15</td>
</tr>
<tr>
<td>Attenuation (dB /100m)</td>
<td>2.6</td>
<td>5.6</td>
<td>8.5</td>
<td>9.7</td>
<td>13.1</td>
</tr>
<tr>
<td>Structural Return Loss (dB /100m)</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td>Nominal Velocity of Propagation</td>
<td>&gt; 65%</td>
<td></td>
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Nominal Weight: 550 Kg/1000m

Operating Temperature: -15 Deg C ~ +70 Deg C

Installation Temperature: +5 Deg C ~ +40 Deg C

Fire Performance: IEC332.1, VW1

Structural Return Loss (dB /100m) 12

Nominal Velocity of Propagation > 65%